

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 January 2004 (08.01.2004)

PCT

(10) International Publication Number
WO 2004/002404 A3

(51) International Patent Classification⁷: **A61K 38/21**, C07K 17/00

(21) International Application Number:
PCT/US2003/019261

(22) International Filing Date: 18 June 2003 (18.06.2003)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/393,066 28 June 2002 (28.06.2002) US

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(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

(88) Date of publication of the international search report:
17 June 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

WO 2004/002404 A3

(54) Title: COMPOSITIONS AND METHOD FOR ENHANCED MUCOSAL DELIVERY OF INTERFERON BETA

(57) **Abstract:** Compositions and methods are provided for intranasal delivery of interferon- β yielding improved pharmacokinetic and pharmacodynamic results. In certain aspects of the invention, the interferon- β is delivered to the intranasal mucosa along with one or more intranasal delivery-enhancing agent(s) to yield substantially increased absorption and/or bioavailability of the interferon- β and/or a substantially decreased time to maximal concentration of interferon- β in a tissue of a subject as compared to controls where the interferon- β is administered to the same intranasal site alone or formulated according to previously disclosed reports. The enhancement of intranasal delivery of interferon- β according to the methods and compositions of the present invention allows for the effective pharmaceutical use of these agents to treat a variety of diseases and conditions in mammalian subjects.

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/19261

A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : A61K 38/21; C07K 17/00
US CL : 424/85.6; 530/351

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
U.S. : 424/85.6; 530/351

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
STN, EAST; search terms: interferon beta, mucosal, intranasal, steroid

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, P --- Y	US 6,465,425 B1 (TRACY et al.) 15 October 2002 (15.10.2002), column 5, lines 20-51 and 60-67, column 6, lines 1-10, and column 10, lines 60-69.	1-24, 33-91 ----- 30,31
Y	US 5,906,816 (SOOS et al.) 25 May 1999 (25.05.1999), column 3, lines 40-50	30,31

Further documents are listed in the continuation of Box C.

See patent family annex.

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"&"

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Date of the actual completion of the international search

Date of mailing of the international search report

12 January 2004 (12.01.2004)

19 APR 2004

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